CENTRAL VALLEY REGIONAL WATER QUALITY CONTROL BOARD

INSPECTION REPORT

17 March 2000

DISCHARGER: Manuel Galhandro

LOCATION & COUNTY: 9240 19 ½ Avenue, Lemoore 93245 (Kings County)

CONTACT(S): Mr. John Galhandro

INSPECTION DATE: 24 February 2000

INSPECTED BY: Cliff Raley (CEG), Matt Scroggins (WRCE)

ACCOMPANIED BY: NA

OBSERVATIONS AND COMMENTS:

1. On 24 February 2000 we received a complaint from the Kings County Department of Public Health that the subject facility was discharging an excessive amount of wastewater to a field on the south side of the dairy.

2. The Galhandro Dairy is ¼ mile southwest of the intersection of 19 ½ Avenue (Highway 41) and Grangeville Boulevard in the SE ¼ of the NW ¼ of Section 28, T.18S., R.20E., MDB&M, and approximately 1.5 miles northwest of Lemoore.

3. DWR data for three wells near the dairy (18S20E34N01M, 19S20E05C01M, and 18S20E19N01M) indicate that the depth to groundwater was approximately 100 feet during 1998 (http://well.water.ca.gov/eXterra/mapwelldata.cfm?SWN='18S20E34N01M'&RM=1200.365&QUAD=1198.364&MOVE=0.0).

4. During the inspection, we observed that cows are kept in dry corrals on the north side of the dairy, and in freestalls on the south side. As shown in Photographs Nos. 1 and 2, the freestalls and a feed lane on the south side are flushed to a series of wastewater ponds. Two of the ponds are on the west side of the dairy and the third pond (not visible in Photographs Nos. 1 and 2) is on the south side of the corrals. The wastewater holding system appeared adequate to hold 120 days of wastewater, and all storm runoff through manured areas during a 25-year, 24-hour storm as required by Title 27, CCR, Section 22562(a).

5. As shown in Photograph No. 3, wastewater is discharged to a disposal field on the south side of the dairy. The field appeared to be 40 acres, or less, and not adequate to receive the amount of wastewater produced by the dairy. Vegetation was sparse in the field in areas of standing water. A perimeter ditch, shown in Photograph No. 4, contained wastewater with a Specific Conductance of 6,800 µmhos/cm.

6. As shown in Photographs Nos. 5 and 6, a canal traverses the western boundary of the disposal field. An approximately 4-inch PVC pipe led from the wastewater pond, crossed the canal (supported by a stick), and discharged to the perimeter ditch surrounding the disposal field. There was no evidence that wastewater had been discharged to the canal. (The Specific Conductance of the canal water was approximately 350 µmhos/cm upgradient and downgradient from the dairy). However,

the discharge line appeared susceptible to rupture and poses a threat to water quality. Therefore, the line needs to be rerouted around the canal.

7. There is a large area south of the westernmost corrals that collects runoff during storm events (see Photograph No. 7). This corral should be graded to drain toward the flush lane. Mr. John Galhandro wrote a letter, in response to a previous Notice of Violation (NOV, dated 2 July 1998), stating that runoff from this corral is pumped into the wastewater ponds. However, the standing water was not being pumped out during the inspection.

SUMMARY AND CONCLUSIONS:

1. The wastewater holding system appeared adequate to hold 120 days of wastewater, and all storm runoff through manured areas during a 25-year, 24-hour storm as required by Title 27, CCR, Section 22562(a).

2. The dairy does not appear to have sufficient cropland for the amount of produced wastewater.

3. The corrals on the southwestern end of the dairy need to be graded to direct runoff toward the flush lane.

E. Clifford Raley

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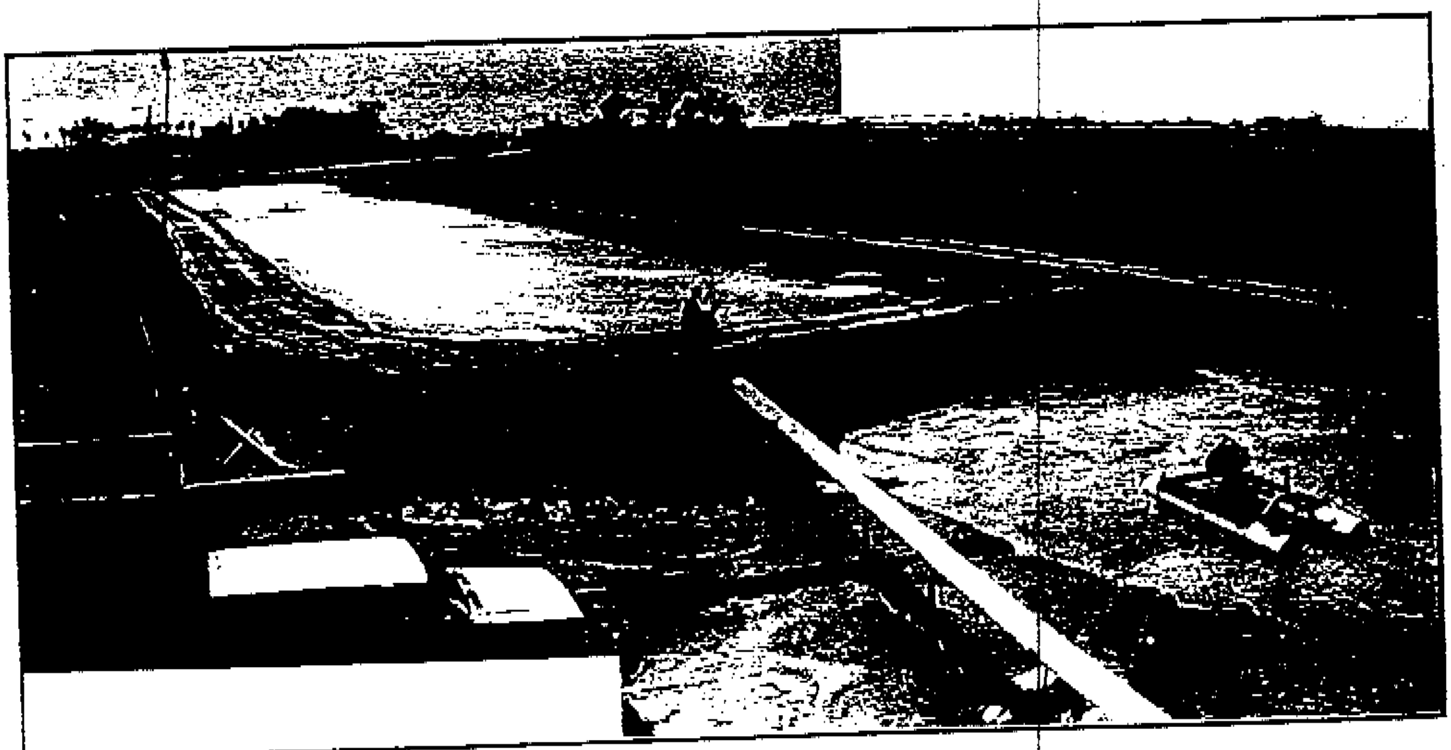
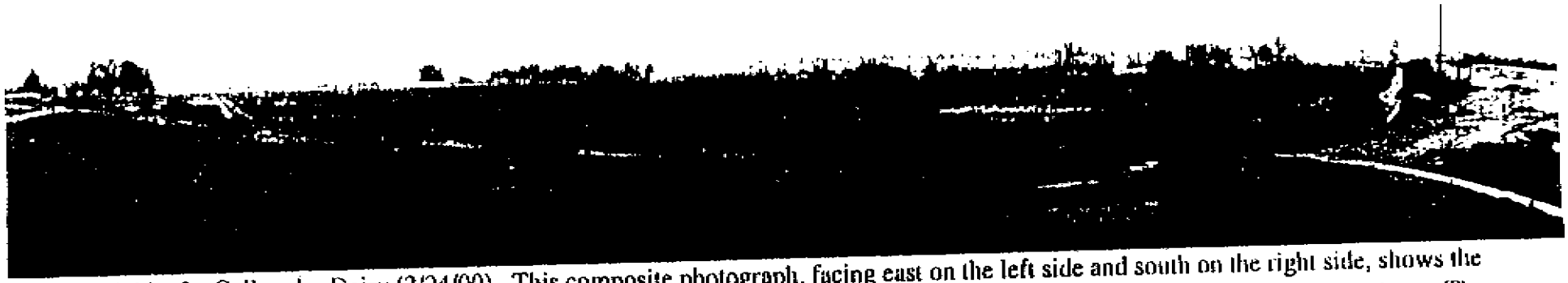
CEG No. 1992

Photograph No. 1. Galhandro Dairy (2/24/00). This composite photograph, facing east on the left side and south on the right side, shows the feed lane and flushed alley that lead to the wastewater ponds on the right side of the photo. The feed lane runs east-west; Highway 41 is behind the trees on the left side of the photo and runs north (left)-south(right).



Photograph No. 2. Galhandro Dairy (2/24/00). This composite photo is a continuation of the panoramic view [illegible] southwest on the shown in Photograph No. [illegible] The view [illegible] south on the left side of the photo and [illegible] right side. Wastewater is flushed to the [illegible] on the right side of the photo [illegible] mechanical separator, and then piped to the upper wastewater pond [illegible] pipe shown in the center of the photo. The land on the upper right side of the photo [illegible] wastewater had been discharged there. The Galhandro [illegible] in the upper left corner of the [illegible]



Photograph No. 3. Galhandro Dairy (2/24/00). This composite photograph, facing east on the left side and south on the right side, shows the approximately 40-acre disposal field on the south side of the dairy. The field has a perimeter ditch, adjacent to the dirt road shown here. There is also a canal that is piped under a portion of the lot (beneath disced area on the left side of the photo), and flows in a channel that is visible on the right side of the photo.

Photograph No. 4. Galhandro Dairy (2/24/00). This is a close-up photograph of the perimeter ditch around the disposal field. The water had a specific conductance of 6,800 umhos/cm (Class 5 > 3,000 umhos/cm, unsuitable for irrigation, D. W. James et al, *Modern Irrigated Soils*, John Wiley and Sons, NY, 1982).

Photograph No. 5. Gaihandro Dairy (2/24/00). The discharge line from the wastewater pond to the disposal field crosses the canal.

Photograph No. 6. [illegible] discharge line crossing the canal. Note that the line is [illegible]

Photograph No. 7. Galhandro Dairy (2/24/00). This photograph shows ponded water near the southwest corner of the corrals. A letter in the file from Mr. John Galhandro indicates that drainage in this area is pumped into the wastewater ponds. In addition to the pond in the foreground, there is a wastewater pond to the right of the ponded area.